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Figure 1

App No.: NEW   Docket No.: 4249-0117PUS1
Inventor: Masafumi INOUE et al.
Title: DETECTION OF SEVERE ACUTE RESPIRATORY
WO 2005/05   SYNDROME BY THE POLYMERASE CHAIN REACTION   CT/SG2004/000416
NEW SHEET   Sheet 2 of 5
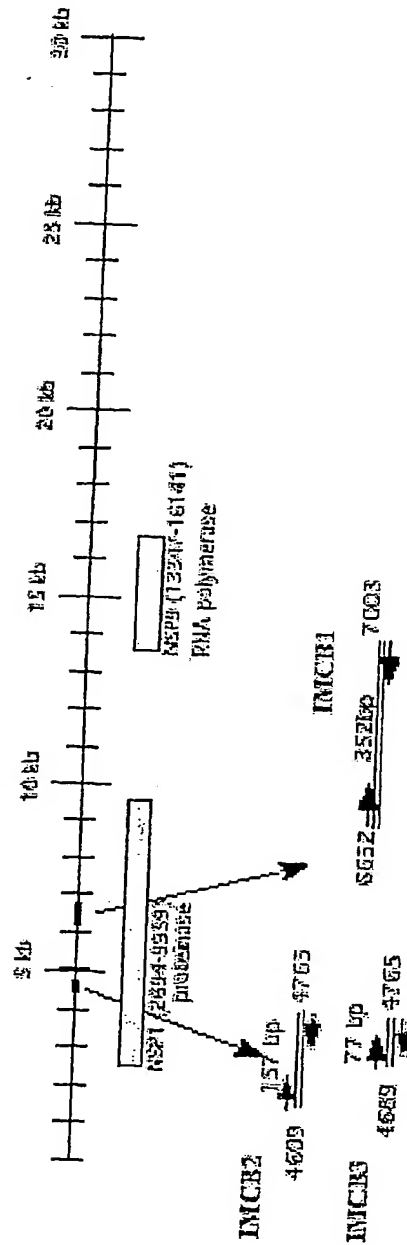
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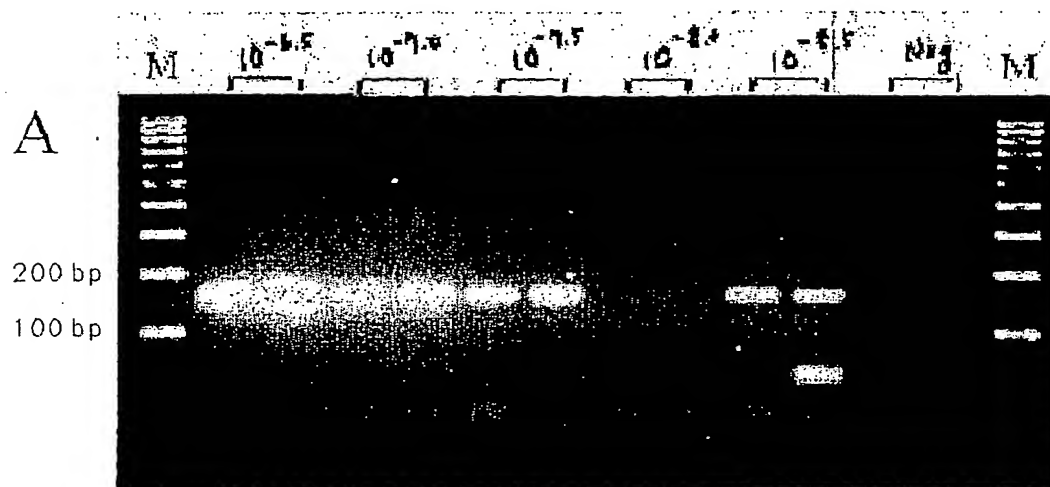
GCCGTAGTGT CAGTATCATC ACCAGATGCT GTTACTACAT ATAATGGATA   50
CGGCATCACA GTCATAGTAG TGGTCTACGA CAATGATGTA TATTACCTAT
                                        IMCB 3 Upper Primer
CCTCACTTCG TCATCAAAGA CATCTGAGGA GCACTTTGTA GAAACAGTTT   100
GGAGTGAAGC AGTAGTTTCT GTAGACTCCT CGTGAAACAT CTTTGTCAAA

      IMCB 3 TaqMan Probe sequence
CTTTG............ ....GGTCCT ATTCAGGACA GCGTACAGAG 150
GAAACC........ ....CCAGGA TAAGTCCTGT CGCATGTCTC
          template sequence   IMCB 3 Lower Primer

TTAGGTG   157
AATCCAC

Figure 2

App No.: NEW   Docket No.: 4249-0117PUS1
Inventor: Masafumi INOUE et al.
Title: DETECTION OF SEVERE ACUTE RESPIRATORY
    SYNDROME BY THE POLYMERASE CHAIN REACTION
WO 2005/05:   NEW SHEET   Sheet 3 of 5   CT/SG2004/000416
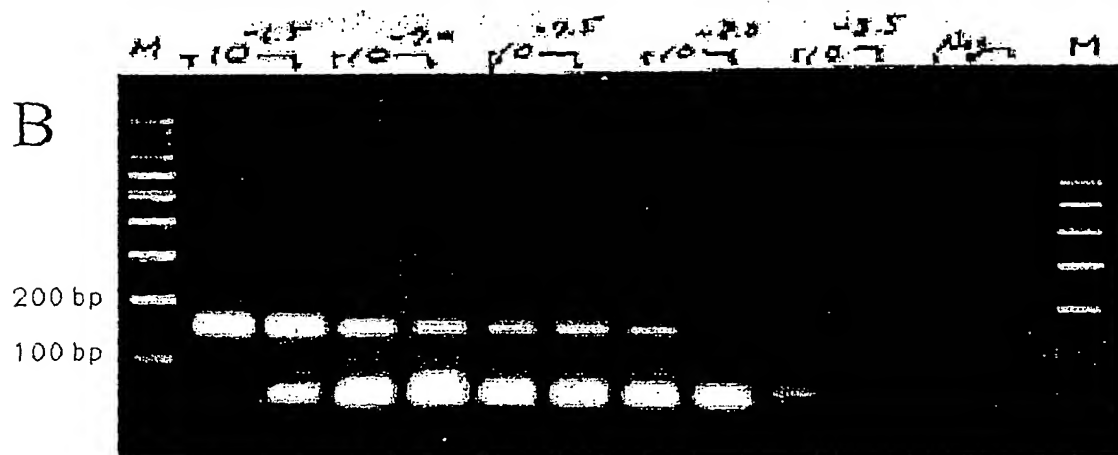
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SARS-CoV One-Step RT-PCR with IMCB 2 Primer Pair

Sensitivity12-4-27jpg, 42 cycles

Sensitivity16-2-191.jpg, 42 cycles

rxn=5 ul, copies measured by ARTUS (and theoretical value)*
$10(-6.0)$=26.1 copies/rxn
$10(-6.5)$=12.6 copies/rxn, (8.2 copies/rxn)
$10(-7.0)$=1.96 copies/rxn, (2.6 copies/rxn)
$10(-7.5)$= 2.0 copies/rxn, (0.8 copies/rxn)
$10(-8.0)$= 0.07 copies/rxn, (0.25 copies/rxn)
$10(-8.5)$= Not detected, (0.08 copies/rxn)
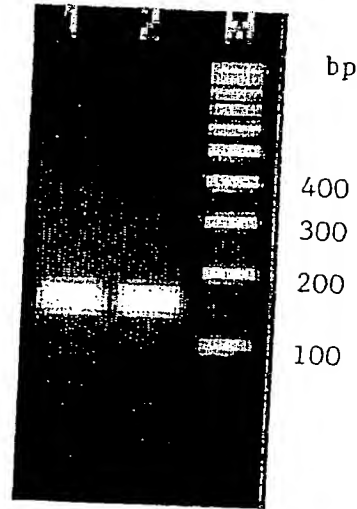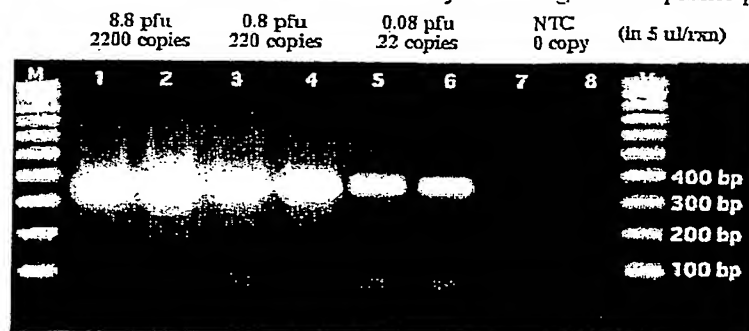*$10(-6.0)$ is serially diluted by $10(-0.5)$ step.

Figure 3

App No.: NEW   Docket No.: 4249-0117PUS1
Inventor: Masafumi INOUE et al.
Title: DETECTION OF SEVERE ACUTE RESPIRATORY
WO 2005/0591   SYNDROME BY THE POLYMERASE CHAIN REACTION   T/SG2004/000416
NEW SHEET   Sheet 4 of 5

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Figure 3C

Fig. 4A

Fig. 4B

Fig. 4C